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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/716,115	11/19/2003	Munenori Fujimura	2003_1592A	6107
513	7590	11/07/2005	EXAMINER	
WENDEROTH, LIND & PONACK, L.L.P.			DINH, TRINH VO	
2033 K STREET N. W.			ART UNIT	
SUITE 800			PAPER NUMBER	
WASHINGTON, DC 20006-1021			2821	

DATE MAILED: 11/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/716,115

Applicant(s)

FUJIMURA ET AL.

Examiner

Trinh Vo Dinh

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 06 September 2005.  
2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.  
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1,6,8-23 and 33-35 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
5) ☒ Claim(s) 1,6,8-22 and 34 is/are allowed.  
6) ☒ Claim(s) 23 and 35 is/are rejected.  
7) ☒ Claim(s) 33 is/are objected to.  
8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.  
10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☒ All b) ☐ Some \* c) ☐ None of:  
1. ☒ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)  
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.  
4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.  
5) ☐ Notice of Informal Patent Application (PTO-152)  
6) ☐ Other: \_\_\_\_\_.

### **DETAILED ACTION**

This is a response to amendment filed 09/06/05. The rejections of claims 1-22 have been withdrawn in view of the amendment. However, the amended claims 23 and newly added claim 35 necessitate a new ground of rejection as discussed below.

#### ***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

*(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.*

2. Claims 23 and 35 are rejected under 35 U.S.C. 102(a) as being anticipated by Tate Sumio (JP 2002-319810 of record).

Respecting claim 23, Tate Sumio discloses, in Figs. 1-2, a chip antenna comprising a substrate having a pair of end portions (1, 6), a plurality of helical conductors (inductor section and antenna section) provided on the substrate, a pair of helical terminal (5,7) provided on said substrate, wherein one of said plurality of helical conductors is electrically connected to each other (abstract) wherein one of the terminals (5 in Figs. 1-4) being connected to a power feeding section (abstract) for feeding a signal current to the one of the pair of terminals and the another of the pair of the terminals being open ended, and wherein one of the plurality of helical conductors (in Fig. 3, the inductor section has the least turns. Thus, the inductor section is corresponding to a highest frequency) corresponding to a highest frequency of a plurality of transmitting and receiving frequencies and is connected to the one of the pair of terminal (5) connected to the power feeding section.

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Respecting claim 35, Tate Sumio further discloses, in Fig. 5, the chip antenna being mounted on a portable terminal in a location which is a lower side of the portable terminal when the portable terminal is held in a normal use orientation.

***Allowable Subject Matter***

3 Claim 33 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

4. Claims 1, 6, 8-22 and 34 are presently allowed.

The cited art of record fails to teach a chip antenna having a plurality of helical conductors and a pair of terminal respectively provided on the pair of end portion of the substrate. Wherein the helical conductors are not electrically conductive with respect to each other, and are capacitively coupled and one of the terminals is connected to a power feeding section and another terminal is open ended as defined in claim 1, or the plurality of helical conductors is at least three of the helical conductors as defined in claim 33.

***Responses to Arguments***

5. In response to the argument regarding amended claim 23 that Sumio does not suggest "one of the plurality of helical conductors corresponding to a highest frequency of a plurality of transmitting and receiving frequencies". The Examiner respectfully disagrees. Fig. 3 of Sumio shows the inductor section having fewer turns than the antenna section. In other words, the length of the inductor section is shorter than the length of the antenna section. Thus, operating frequency of inductor section is a higher frequency than one of the antenna section. Similarly,

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the inductor section is corresponding to a highest frequency of a plurality of transmitting or receiving frequencies.

### *Conclusion*

6. Applicant's amendment necessitated the new ground of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

### *Inquiry*

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Trinh Vo Dinh whose telephone number is (571) 272-1821. The examiner can normally be reached on Monday to Friday from 9:30AM to 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong, can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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A handwritten signature in black ink, appearing to read 'Trinh Vo Dinh', followed by a long horizontal line.

*Trinh Vo Dinh*

*November 01, 2005*